

CLAIMS

- 1) Fluid-dynamic circuit (1) for supplying primary and auxiliary uses with preset priorities comprising a source of pressurised fluid; conventionally indicated by (P), at least
5 one first use with primary priority, conventionally indicated by (PR1), at least one second use with secondary priority, conventionally indicated by (PR2), at least one third use with low priority, conventionally indicated by a (EF), characterised in that said first use (PR1) is directly
10 connected to said source (P) by a relative first pipe (2), that said second use (PR2) and third use (EF) are connectable to said source (P) by said second (3) and third pipe (4) by interposing valve means (5) equipped with a distributor member (6) controlling said second (3) and third pipe (4) and movable
15 according to at least three connection configurations, in a first configuration (100) said second use (PR2) and third use (EF) being shut, in a second configuration (101) said second use (PR2) being open and third use (EF) shut, in a third configuration (102) said second use (PR2) being open and third
20 use (EF) open.
- 2) Fluid-dynamic circuit (1) according to claim 1 characterised in that between said source (P) and said valve means (5) at least one first signal line (20) detecting a first pressure signal of said fluid is provided, that between
25 said second use (PR2) and said valve means (5) a second signal line (30) detecting a second pressure signal of said fluid is provided, that between said first use (PR1) and said valve means (5) a third signal line (30) detecting a third pressure signal of said fluid is provided.
- 30 3) Fluid-dynamic circuit (1) according to claims 1 and 2 characterised in that said first pressure signal line (20) is connected to said distributor member (6) of said valve means (5) in an antagonistic manner to said second pressure signal line (30) and said third pressure signal line (40), said

distributor member (6) being actuated mobile between at least three of said connection configurations (100, 101, 102) by signal differences detectable by said first pressure signal line (20) and by said second (30) and third pressure signal lines (40).

4) Fluid-dynamic circuit (1) according to claim 3 characterised in that said first pressure signal line (20) activates the shift of said distributor member (6) towards opening connection configurations of said second use (PR2) and third use (EF), said second (30) and said third pressure signal lines (40) activating the shift of said distributor member (6) towards closing connection configurations of said second use (PR2) and third use (EF).

5) Fluid-dynamic circuit (1) according to claims 2, 3, and 4 characterised in that at least between said second pressure signal line (30) and said third (40) pressure signal line an organ (15) is interposed selecting said second and third signal, the greatest thereof on the output being selected by a further signal line (20') acting on said distributor member (6) antagonistically in relation to said first signal of said first signal line (20).

6) Fluid-dynamic circuit (1) according to claims 1, 2 and 3 characterised in that said distributor member (6) is normally contrasted in said second (101) and third connecting configuration (102) by at least one elastic means (7) with a presettable reactive force, to recall said distributor member (6) to said first configuration (100) in the absence of said signals of said first sensor line (20) and of a further sensor line (20').

7) Fluid-dynamic circuit (1) according to claim 1 characterised in that said distributor member (6) is positionable in at least a fourth configuration (103) and a fifth configuration (104), said fourth configuration (103) being interposed between said first configuration (100) and

said second configuration (101), said fifth configuration (104) being interposed between said second configuration (101) and said third configuration (102), in said fourth configuration (103) said second use (PR2) being partially shut and said third use (EF) being shut, in said fifth configuration (104) said second use (PR2) being open and said third use (DF) being partially shut.

8) Fluid-dynamic circuit (1) according to claim 1 characterised in that said source (P) comprises a pumping unit(8) of the fixed-flow type.

9) Fluid-dynamic circuit (1) according to claim 1 characterised in that said source (P) comprises a pumping unit(9) of the variable-flow type.

10) Fluid-dynamic circuit (1) according to claim 1 characterised in that between said source (P) and said first use (PR1) at least one protective valve means is interposable (10) that is equipped with an organ (11) with a presettable intervention threshold.

11) Fluid-dynamic circuit (1) according to claim 10 characterised in that said valve means (10) is piloted by a shutter member (12) between at least two intervention positions (200, 201), said valve means (20) being open in a first position (200), said valve means (20) being shut in a second position (201).

12) Fluid-dynamic circuit (1) according to claim 11 characterised in that said organ (11) with a presettable intervention threshold comprises at least one pre-chargeable contrast spring (13) constantly acting on said shutter member (12) to recall the latter to said open configuration (200) of said valve means (10).

13) Fluid-dynamic circuit (1) according to claim 1 characterised in that between said source (P) and said first use (PR1) valve means (14) limiting the flow of fluid towards said first use (PR1) is interposable.